

=> s batch processing and (Na or ti or al or sb or be or b or ga or mo or nb or ta or zr or v or ir or os or re or u) and 75/clas

88234 BATCH  
472603 PROCESSING  
3052 BATCH PROCESSING  
(BATCH(W) PROCESSING)  
106909 NA  
46460 TI  
458539 AL  
24294 SB  
10408 BE  
1159888 B  
23172 GA  
41924 MO  
17264 NB  
26648 TA  
17875 ZR  
551171 V  
58985 IR  
39839 OS  
202864 RE  
1243917 U  
22799 75/CLAS  
L4 34 BATCH PROCESSING AND (NA OR TI OR AL OR SB OR BE OR B OR GA  
OR  
MO OR NB OR TA OR ZR OR V OR IR OR OS OR RE OR U) AND 75/C  
LAS

=> d 14 1-34 cit

1. 5,772,701, Jun. 30, 1998, Method of making tantalum capacitors; April D. McMillan, et al., 29/25.03; **75/245, 314, 356**; 361/529; 419/2, 29, 39, 56 [IMAGE AVAILABLE]
2. 5,759,228, Jun. 2, 1998, Nozzle for electric dispersion reactor; Warren G. Sisson, et al., **75/255**; 266/170; 425/6 [IMAGE AVAILABLE]
3. 5,599,379, Feb. 4, 1997, Apparatus and method for recovering non-ferrous metals from hot dross; Han Spoel, et al., **75/378, 672**; 266/80, 87, 89, 207, 227 [IMAGE AVAILABLE]
- ④ 5,503,655, Apr. 2, 1996, Low cost titanium production; Adrian A. Joseph, **75/621, 10.19, 10.64** [IMAGE AVAILABLE]
5. 5,490,162, Feb. 6, 1996, Process and device for the continuous treatment of silicon; Anton More, et al., 373/33; **75/10.47**; 373/27, 84 [IMAGE AVAILABLE]
6. 5,411,574, May 2, 1995, Titanium extraction; Terence W. Turney, et al., **75/743**; 423/69, 81 [IMAGE AVAILABLE]
7. 5,358,548, Oct. 25, 1994, Condensation of metal vapors in a fluidized bed and apparatus; Roger L. Player, et al., **75/381, 385, 595, 624, 665, 669, 690, 694** [IMAGE AVAILABLE]
8. 5,354,359, Oct. 11, 1994, Hydrometallurgical process for the recovery of precious metal values from precious metal ores with thiosulfate

- lixiviant; Rong-Yu Wan, et al., 75/744; 423/27, 32 [IMAGE AVAILABLE]
9. 5,290,535, Mar. 1, 1994, Process for recycling saltcake; Dale A. Zuck, et al., 423/627; 75/419, 671, 672; 423/131, 600, 625 [IMAGE AVAILABLE]
10. 5,139,568, Aug. 18, 1992, Continuous production of iron-carbon alloy using iron carbide; Gordon W. Geiger, 75/501, 512 [IMAGE AVAILABLE]
11. 5,092,563, Mar. 3, 1992, Apparatus for recovery of heavy metals from highly concentrated wastewater solutions; Joseph Fehsenfeld, et al., 266/170; 75/724, 725, 726; 210/195.1, 197, 202, 203, 342 [IMAGE AVAILABLE]
12. 5,030,274, Jul. 9, 1991, Method for recovering metallics and non-metallics from spent catalysts; Vincent C. Ward, 75/10.65, 631 [IMAGE AVAILABLE]
13. 5,019,273, May 28, 1991, Method for recovery of heavy metals from highly concentrated wastewater solutions; Joseph Fehsenfeld, et al., 210/719; 75/726, 731; 204/DIG.13; 205/576, 598, 610, 745; 210/726, 772, 912 [IMAGE AVAILABLE]
14. 4,886,637, Dec. 12, 1989, Presinter treatment for iron powder article formed with boride additive; William F. Jandeska, Jr., et al., 419/12; 75/242, 244; 419/42, 45, 47, 53, 56 [IMAGE AVAILABLE]
15. 4,662,613, May 5, 1987, Reusable precious metal recovery cartridge; Manfred J. Woog, 266/170; 75/427, 733; 210/512.1 [IMAGE AVAILABLE]
16. 4,564,390, Jan. 14, 1986, Decarburizing a metal or metal alloy melt; Debabrata Gupta, et al., 75/546, 526, 531 [IMAGE AVAILABLE]
17. 4,515,630, May 7, 1985, Process of continuously treating an alloy melt; Derek E. Tyler, et al., 75/407, 526, 537, 539; 266/216; 420/129 [IMAGE AVAILABLE]
18. 4,472,195, Sep. 18, 1984, Process for decarburizing alloy melts; Debabrata Gupta, et al., 75/552 [IMAGE AVAILABLE]
19. 4,325,732, Apr. 20, 1982, Precious metal recovery cartridge and method; Manfred J. Woog, 75/733, 724; 210/497.01, 503, 504; 266/170 [IMAGE AVAILABLE]
20. 4,316,738, Feb. 23, 1982, Economical process for producing metal particles for magnetic recording; Irving W. Wolf, et al., 75/349 [IMAGE AVAILABLE]
21. 4,272,341, Jun. 9, 1981, Process for recovery of metal values from lead-zinc ores, even those having a high carbonate content; Frank E. Lamb, 205/603; 75/725; 423/105, 165, 419.1, 430, 431, 544 [IMAGE AVAILABLE]
22. 4,265,432, May 5, 1981, Degassing molten metals; Dimitri E. Lajovic, et al., 266/220; 75/528 [IMAGE AVAILABLE]
23. 4,168,154, Sep. 18, 1979, Sintering process for iron ore mixtures; Fred Cappel, et al., 75/309, 313, 758, 765 [IMAGE AVAILABLE]
24. 4,165,979, Aug. 28, 1979, Flash smelting in confined space; Haydn Davies, et al., 75/455, 628, 639; 266/44, 189 [IMAGE AVAILABLE]

25. 4,067,736, Jan. 10, 1978, Metal powder production; Haig Vartanian, 420/425; **75/343, 363, 622**; 420/427 [IMAGE AVAILABLE]
26. 4,015,069, Mar. 29, 1977, Apparatus for extracting metals from ore; Robert G. Owen, 373/60; **75/10.62**; 219/69.17; 266/161, 171, 204, 205 [IMAGE AVAILABLE]
27. 4,012,481, Mar. 15, 1977, Process for the separation of platinum group metals; John Baltz, et al., **75/722, 732**; 423/22, 658.5 [IMAGE AVAILABLE]
28. 3,992,192, Nov. 16, 1976, Metal powder production; Haig Vartanian, **75/344, 359** [IMAGE AVAILABLE]
29. 3,989,510, Nov. 2, 1976, Manufacture of titanium chloride and metallic iron from titaniferous materials containing iron oxides; Donald F. Othmer, **75/437**; 423/76, 84, 492 [IMAGE AVAILABLE]
30. 3,977,865, Aug. 31, 1976, Method for extracting metals from ore; Robert G. Owen, **75/10.62** [IMAGE AVAILABLE]
31. 3,859,077, Jan. 7, 1975, MANUFACTURE OF TITANIUM CHLORIDE, SYNTHETIC RUTILE AND METALLIC IRON FROM TITANIFEROUS MATERIALS CONTAINING IRON; Donald F. Othmer, **75/437**; 423/75, 149 [IMAGE AVAILABLE]
32. 3,844,770, Oct. 29, 1974, MANUFACTURE OF STEEL AND FERROUS ALLOYS; Ivor Gray Nixon, **75/529, 549, 559** [IMAGE AVAILABLE]
33. 3,607,231, Sep. 21, 1971, METHOD FOR PURIFICATION OF COPPER; Thomas Gordon Hart, **75/641, 647** [IMAGE AVAILABLE]
34. 3,575,399, Apr. 20, 1971, APPARATUS FOR PURIFICATION OF COPPER; Thomas Gordon Hart, 266/207; **75/647**; 266/211, 212, 233 [IMAGE AVAILABLE]

=> s (nozzle or choke flow nozzle or critical flow nozzle or sonic flow nozzle) and 75/clas

128570 NOZZLE  
13597 CHOKE  
798870 FLOW  
128570 NOZZLE  
0 CHOKE FLOW NOZZLE  
(CHOKE (W) FLOW (W) NOZZLE)  
274592 CRITICAL  
798870 FLOW  
128570 NOZZLE  
26 CRITICAL FLOW NOZZLE  
(CRITICAL (W) FLOW (W) NOZZLE)  
16205 SONIC  
798870 FLOW  
128570 NOZZLE  
8 SONIC FLOW NOZZLE  
(SONIC (W) FLOW (W) NOZZLE)  
22799 75/CLAS  
L6 1313 (NOZZLE OR CHOKE FLOW NOZZLE OR CRITICAL FLOW NOZZLE OR SON  
IC FLOW NOZZLE) AND 75/CLAS

=> s l6 and titanium tetrachloride and Na

120594 TITANIUM  
43703 TETRACHLORIDE  
7680 TITANIUM TETRACHLORIDE  
(TITANIUM (W) TETRACHLORIDE)  
106909 NA  
L7 5 L6 AND TITANIUM TETRACHLORIDE AND NA

=> d l7 1-5 cit

1. 5,779,761, Jul. 14, 1998, Method of making metals and other elements; Donn Reynolds Armstrong, et al., 75/370, 371, 605, 613, 616, 619, 620, 676 [IMAGE AVAILABLE]

(2) 5,749,937, May 12, 1998, Fast quench reactor and method; Brent A. Detering, et al., 75/10.19, 10.21, 10.28, 346; 266/182; 373/18; 420/590; 422/207; 423/289, 613; 585/538 [IMAGE AVAILABLE]

3. 4,105,440, Aug. 8, 1978, Process for reducing metal halides by reaction with calcium carbide; Claude Gentaz, et al., 75/589 [IMAGE AVAILABLE]

4. 3,977,866, Aug. 31, 1976, Method for producing titanium; Donald F. Othmer, 75/617 [IMAGE AVAILABLE]

5. 3,825,415, Jul. 23, 1974, METHOD AND APPARATUS FOR THE PRODUCTION OF LIQUID TITANIUM FROM THE REACTION OF VAPORIZED **TITANIUM TETRACHLORIDE** AND A REDUCING METAL; Philip Douglas Johnston, et al., 75/10.29, 617, 619; 266/148, 156, 200, 202, 207, 217 [IMAGE AVAILABLE]

s batch processing and Na and titanium tetrachloride and 75/clas

88234 BATCH  
472603 PROCESSING  
3052 BATCH PROCESSING  
(BATCH (W) PROCESSING)  
106909 NA  
120594 TITANIUM  
43703 TETRACHLORIDE  
7680 TITANIUM TETRACHLORIDE  
(TITANIUM (W) TETRACHLORIDE)  
22799 75/CLAS

L1 2 BATCH PROCESSING AND NA AND TITANIUM TETRACHLORIDE AND 75/C  
LAS

=> d 11 1-2 cit

1. 3,989,510, Nov. 2, 1976, Manufacture of titanium chloride and metallic iron from titaniferous materials containing iron oxides; Donald F. Othmer, **75/437**; 423/76, 84, 492 [IMAGE AVAILABLE]

2. 3,859,077, Jan. 7, 1975, MANUFACTURE OF TITANIUM CHLORIDE, SYNTHETIC RUTILE AND METALLIC IRON FROM TITANIFEROUS MATERIALS CONTAINING IRON; Donald F. Othmer, **75/437**; 423/75, 149 [IMAGE AVAILABLE]